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'met glu leu lys ser leu gly' or melkslg\$	0

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USPT	l7 same l2	42	<u>L8</u>
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USPT	l1 same l2	20	<u>L3</u>
USPT	erwinia	1892	<u>L2</u>
USPT	harpin	52	<u>L1</u>

FILE 'REGISTRY' ENTERED AT 13:58:18 ON 01 JUN 2001  
E MELKSLG/SQEP  
L1 0 S E4  
L2 2 S MELKSLG/SQSP  
L3 E MTSSQQRVE/SQEP  
1 S MTSSQQRVE/SQSP

FILE 'CA' ENTERED AT 14:01:23 ON 01 JUN 2001  
L4 6 S L2  
L5 5 S L3

=> e melkslg/sqep

E1 1 MELKSLDIFTDTIYSEIIISKNLSKKDLKIEYSNLYTEILLRQKDGSLIEALRPNSNFFDQYDIES  
IKNTGKFKPMVIKYHLTEDALYKISSFN/SQEP  
E2 1 MELKSIFAADFRAVATKGLSYKTNIEVHMLSQEDKALSILEETPSSDTMLLDHRSILADV  
KKVMEIAPITQLEATEKELHAALTKYPKYLEKQNPDISKAYRHNVEFDTHIVNQINFFY  
RQGMFDIGDQFVAETGESECTRSQSFVEMYRILEAMKRRDLEPALNVAWSNDSKLKEA  
RSDLEMKLHLSHLEIA/SQEP  
E3 0 --> MELKSLG/SQEP  
E4 2 MELKSLGTEHKAHVHTAHPNVGHVALQGGSSSSPQNAASLAEGKNRGKMPRIH  
QPSTAADGISAHHQKKSLSRGLGCKKFSRQAPQGGTTHSKGATRLDLARDDG  
ETQHEAAPPDAARLTRSGGVKRRNMDMAGRPVWKGSGEDKVPTQKQKHQLNN  
FGQMRQMLSKMAHPASANAGDRLQHSPPH/SQEP  
E5 1 MELKSLAVLYPLCAAPLAARPASNAFVIGGSPAAAGEFFIVSTLLNGRHWCGGVLL  
NANTVLTAAHCVESTPAISQVRAGSLAHAGGVVANISSITPHKPYEGGLYDMAILKST  
PIEANGTIVRIARSDPVGADATVAGWGDLEAGAPPEELKVTPVWDRATCSAAQY  
AIPMPNITDAMFCAGLEK/SQEP  
E6 1 MELKSMDDPVEPIFGSTLKMFKVSYLVHNNWRYVAMTYIINCTQYVDIYLSTESLD  
FIIRNVYLAFLVTNTVVRGVLLCVQFYSYERFINILKSFYIELQSDDDPIINILYKETTR  
LSVLISRLNLLMGCCCTCIGFVYPIFGSERVLPYGMVLTIDEYKYASPYEIFFVIQAI  
MAPMGCCMYPITNMVMTFT/SQEP  
E7 1 MELKSPEEEVWAALPEGMRPDSNLYGFPWELVICAUVVGFVAVLFLWRSF'AAA'SVRS  
RLYVGR/SQEP  
E8 1 MELKSPEEEVWAALPEGMRPDSNLYGFPWELVICAUVVGFVAVLFLWRSF'AAA'SVRS  
RLYVGR/SQEP  
E9 1 MELKSSKTDVHGGSVFMFDRKVLRYFRKDGHNWRKKDKGKTVEAHERLKAGSDV  
LHCYYAHGQDNENFQRRSYWLLQEELSHIVFVHYLEVKGSRVSTSNRMQRTEDAAR  
SPQETGDALTSEHDGYASCFSNQNDHNSHSQTTSASVNGFHSPELEDAESAYNQHGSS  
TAYSHQELQQPATGGNLTGDFPYQISL/SQEP  
E10 1 MELKSSNNNILEQLRNGFARFELVSSPTASVSDSISSTSLPASFISTTKGNSYVFFARI  
NSSMNRSPAACKVEKYAVDRVKGDRCLFRALVKGMAFNKGITLNPQRRERDDADELRMAV  
KEVIC/SQEP  
E11 2 MELKTEEEVGVGPVSIQAFASSTLHGLAHIFSRYERLSLKRALWALCFLGSLAVLLCV  
CTERYQYFYCYHHVTKLDEVAASQLTFFPAVTLCLNLFQSVQSKNDLYHAGELLANN  
RYEIPDTQMADEKQLEIQDQKNAFSPKPFNMREFYDRAGHDIRDMLLSCHFRGEACS  
AEDFKVVFTRYGKCYTFNSG/SQEP  
E12 1 MELKTEEEVGVGPVSIQAFASSTLHGLAHIFSRYERLSLKRALWALCFLGSLAVLLCV  
CTERYQYFYCYHHVTKLDEVAASQLTFFPAVTLCLNLFQSVQSKNDLYHAGELLANN  
RYEIPDTQMADEKQLEIQDQKNAFSPKPFNMREFYDRAGHDIRDMLLSCHFRGEACS  
AEDFKVVFTRYGKCYTFNSG/SQEP

=> e mtssqqrve/sqep

E1 1 MTSSQPAWGTAAELAQAAAARGQLDLHYQLVLDLRDHRVTGAEALMRWRHPRLGLLP  
PGQFLPLAESFGLMPEIGAWVLGEACRQMKHWQGPAPQPFRLAINVSASQVGTDFDE  
1/25/01 ANHAI BAE11 E1ETEGVACNDPAI EASEN1 DAICVDEA ADNECTOVC1

E2 1 QHLKCCPITTLKIDQSFVARLPDDARDQTI/SQEP  
1 MTSSQPTPDSAOPKANSASLSKKALGECILKDRFRFSKRIDGASKIKNESARNAVFDEI  
ALDIAQSMVMVEQRKQMPKIEYPALLPVSKRDDIAQIAHHQVIVAGETSGSKTTQL  
PKICAEELGRGKYLIGHTQPRLLAARSVANRIAEEMETELGFGVGYKVRFTDQISDQTI  
KLMTDGIILAEIQNDRFLNQ/SQEP  
E3 0 --> MTSSQQRVE/SQEP  
E4 1 MTSSQQRVERFLQYFSAGCKTPIHLKDGVCALYNEQDEEAVALLEVPQHSDSLHLCRIE  
ADPQTSTILYSMLLQNFEMAAAMRGCVLWALDELHNVRLCFQQSLEHLDEASFSDIVSGFI  
EHAEEVREYIAQLDESSAA/SQEP  
E5 1 MTSSQQYVDIYSFTSEENRRFARNFTKLVTNARFEGINTTLPTQTQTIMDMSVAGVPV  
EDVLTIVNLKRGWQYVTTETAEMTLDEKAINKIVAEADALVPGELRQGGGVNLGDEEF  
FEPPLNQEQEETFLKTLTNSHTTTDKALTIMYHNMRRQQFWDGNGKRTATLSANKIMI  
DGGAGLNVPLDKWAKWNL/SQEP  
E6 1 MTSSQVKTGPFDSWSYSEMEKEFFELIRSVGLLTVAADISITNGSEAVTEEVSVQSLSDV  
DKGGCEEDNASAVEEQGLTLGVSSSGEALTNAVQPSSETVQOESSSSHHDAKNQQPV  
PCENATPKRTIRTDICFNYNEDSPTQPTLPKRGLFLKEETFKNDLKGNGGKRMVLDKPEMS  
RSTPSLVDPPDRSKLCLVQ/SQEP  
E7 1 MTSSQYEDDERAVDEAILYGKTCCCKTCDGMDAWIFDIDDTLLSTIPYHKSNGCFG  
EQLNTTKFEWQNSGKAPVPMVKLYHEIRERGFKLISRSRKEYLRSATVENLIEAGY  
HSWSNLLLRGDEDEKKSQYKADLRWLTSLGYRVWVGMAQWNSFSGCPVPKRT  
FKLPNSIYVA/SQEP  
E8 1 MTSSRGAPFSALHTLACRILLADFNLQEEASIPEDIFQHDGIDGIDEDIESAHIQYAPS  
AAAATDVEVEDTDDDDDDVRLLEEDDDSDAADILESQRPTSRNF SVYLDKYYQNS  
NNKRSKEQKKNHSHNYKLNNKENNNHRLAKEAAAAGKSEIETVLGGGTFTSGDEQP  
QLEDREQVEHEENAFGRQS/SQEP  
E9 1 MTSSRIGTHTPA/SQEP  
E10 1 MTSSRVKRPTKHIFTGGVSSSLGKGLTAASLQGLIARGLSVTMQKLDPLVNVDPGTMN  
PFEHGEVFTEDGAETDLGLHYERFLDRNLGLNANVTGKYVSTVIKERRGEYLGKT  
QVIPHITDEIKARILSMGEPDAHGNAPDWISEVGGTVGDIESQPFLEAARQVRHEIGRE  
NCFHICSLPYLATSGELK/SQEP  
E11 1 MTSSRLCEIMNYQVAKAE'AAA'AVKVELLARVEAELVTSENRNREGISVLALGVQQF  
AFRACHTISVLEAENNAHFFSITKIDIAQLIQAHELFETFGGILISNTICEKLELQS  
VLLKNSDRNLNRDGRCLDWHGRDCGDPWIGSTEYKLEEMDNHNEEPNAPENRWYNTIL  
GPSLLNNHNSYSPKFCITLRY/SQEP  
E12 1 MTSSRLWFSLLAAAFAGRATALWPWPQNFQTSQDRYVLYPNNFQFYDVSSAAQ  
PGCSVLDEAFQYRDLFGSGSWPRPYLTGKRHTLEKNLVSVWTPGNCNQLPTLESV  
ENYTLTNDQDQCLLSETVWGLRGLETFSQLVWKSAGETFFINKTEIEDFPFRPHRGLLL  
DTSRHYLPLSSILDLDVMAYNKLVN/SQEP

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T1 Methods of imparting stress resistance to plants with hypersensitive response elicitor proteins derived from fungal and bacterial pathogens  
PY 2000 2000

L4 ANSWER 2 OF 6 CA COPYRIGHT 2001 ACS

T1 Sequences encoding fragments of microbial hypersensitive response elicitor proteins which are active but do not elicit a hypersensitive response, and their applications in plant genetic engineering  
PY 2000 2000 2000

L4 ANSWER 3 OF 6 CA COPYRIGHT 2001 ACS

T1 Recombinant constructs and systems for secretion of proteins via type III secretion systems  
PY 2000 2000 2000

L4 ANSWER 4 OF 6 CA COPYRIGHT 2001 ACS

T1 Hypersensitive response elicitor from *Erwinia amylovora* and its use for plant genetic engineering  
PY 1999 2001 1999 2000 2000 2000

L4 ANSWER 5 OF 6 CA COPYRIGHT 2001 ACS

T1 Homology and functional similarity of an hrp-linked pathogenicity locus, *dspEF*, of *Erwinia amylovora* and the avirulence locus *avrE* of *Pseudomonas syringae* pathovar *tomato*  
PY 1998

L4 ANSWER 6 OF 6 CA COPYRIGHT 2001 ACS

T1 DspA, an essential pathogenicity factor of *Erwinia amylovora* showing homology with AvrE of *Pseudomonas syringae*, is secreted via the Hrp secretion pathway in a DspB-dependent way  
PY 1997

L4 ANSWER 6 OF 6 CA COPYRIGHT 2001 ACS  
AN 128:112730 CA

T1 DspA, an essential pathogenicity factor of *Erwinia amylovora* showing homology with AvrE of *Pseudomonas syringae*, is secreted via the Hrp secretion pathway in a DspB-dependent way

AU Gaudriault, S.; Malandrin, L.; Paulin, J.-P.; Barny, M.-A.

CS Laboratoire de pathologie vegetale INA-PG/INRA, Paris, 75231, Fr.

SO Mol. Microbiol. (1997), 26(5), 1057-1069

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd. DT Journal LA English

AB In *Erwinia amylovora*, the dsp region, required for pathogenicity on the host

plant but not for hypersensitive elicitation on tobacco, is sepd. from the hrp region by 4 kb. The genetic anal. reported in this paper showed that this 4 kb region is not required for pathogenicity on pear seedlings. The environmental conditions allowing expression of a dsp::lacZ fusion were examd.: expression was barely detected in rich medium at 30 degree.C, and the highest expression was obsd. in M9 galactose minimal medium at 25 degree.C. A dsp::uidA fusion appeared to be expressed only in a HrpL-proficient strain, indicating that the dsp region, like the hrp region, is pos. controlled via the alternative sigma factor HrpL. Sequence anal. revealed that the dsp cluster encodes two genes, dspA (5517 bp) and dspB (420 bp), and that the insertions leading to the dsp::lacZ and the dsp::uidA fusions were within dspA. A HrpL-dependent promoter sequence (GGAACC-N15-CAACA) was identified upstream of dspA, and primer extension anal. detected four transcriptional starts 7, 8, 9 and 10 bp downstream of this sequence. A .sigma.70 promoter sequence (TTGCC-N16-GATAAT) was obsd. upstream of dspB. The functionality of this second promoter was confirmed by complementation anal. This promoter allowed constitutive expression of dspB, as measured by the expression of a dspB::uidA fusion in rich medium. In M9 galactose medium, however, HrpL was shown to activate dspB, as expression of the dspB::uidA fusion was twofold higher in a HrpL+ background than in a HrpL- background. Transposon insertions in either dspA or dspB led to a non-pathogenic phenotype. Thus, both DspA and DspB were required for *E. amylovora* pathogenicity, as dspB could be expressed independently of dspA. DspA and DspB were visualized as polypeptides with apparent sizes of 190 kDa and 15.5 kDa, resp., when encoded in the T7 polymerase/promoter system. DspA, which showed homol. with the protein predicted from the partial sequence of *Pseudomonas syringae* pv. tomato avrE transcriptional unit III, was shown to be secreted into the external medium via the Hrp secretion pathway. DspB was predicted to be acidic, like the Syc chaperone of *Yersinia*. A chaperone role for DspB was suggested further by the fact that DspA secretion required a functional DspB protein.

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PY 2000 2000 2000

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